FIG.1

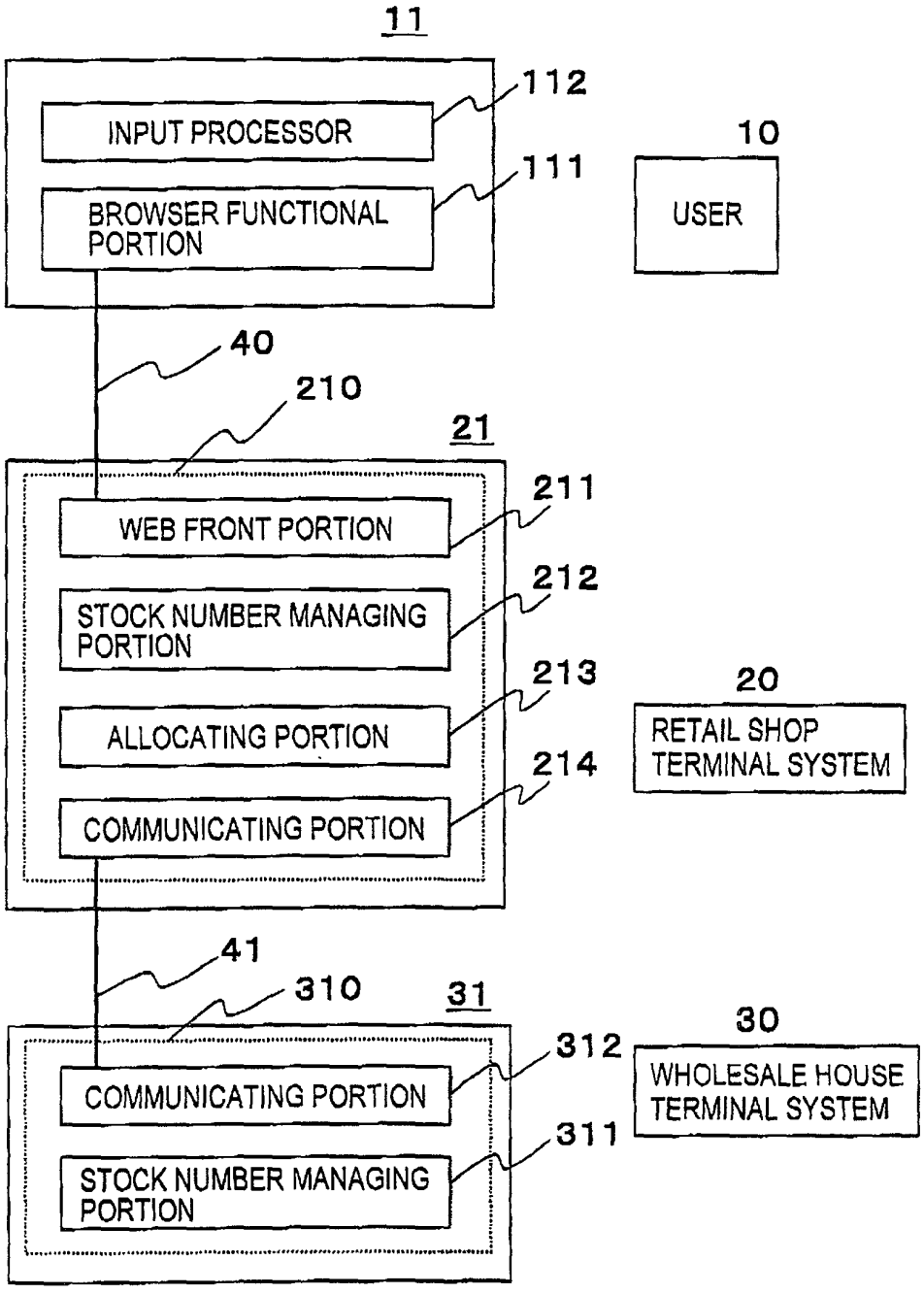

11
112
INPUT PROCESSOR
111
BROWSER FUNCTIONAL PORTION
10
USER
40
210
21
211
WEB FRONT PORTION
212
STOCK NUMBER MANAGING PORTION
213
ALLOCATING PORTION
214
COMMUNICATING PORTION
20
RETAIL SHOP TERMINAL SYSTEM
41
310
31
312
COMMUNICATING PORTION
311
STOCK NUMBER MANAGING PORTION
30
WHOLESALE HOUSE TERMINAL SYSTEM

FIG.2

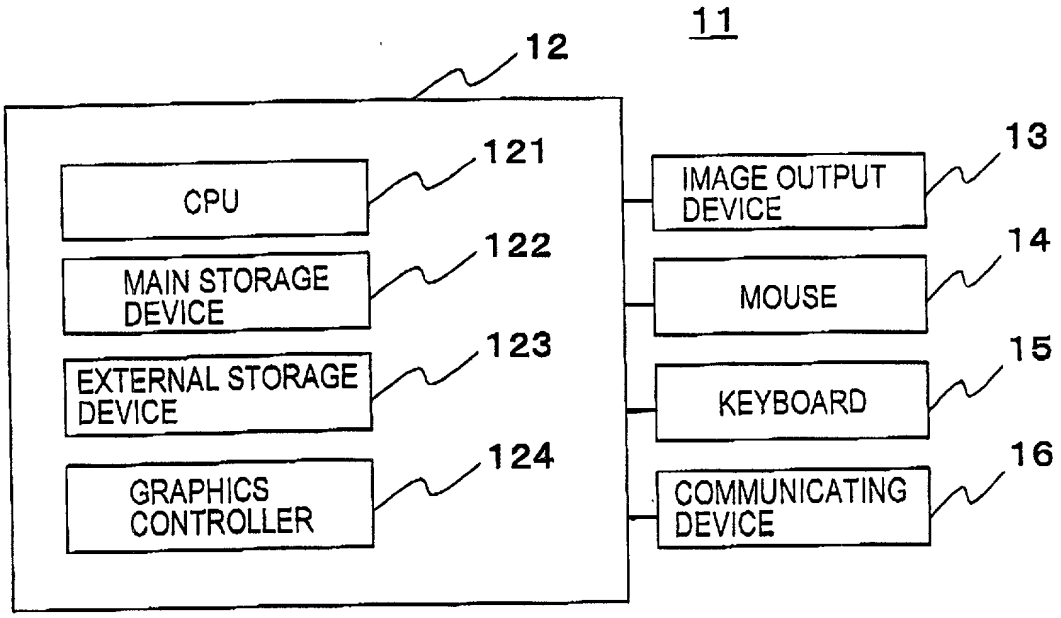

11
12
CPU
121
MAIN STORAGE DEVICE
122
EXTERNAL STORAGE DEVICE
123
GRAPHICS CONTROLLER
124
IMAGE OUTPUT DEVICE
13
MOUSE
14
KEYBOARD
15
COMMUNICATING DEVICE
16

FIG.3

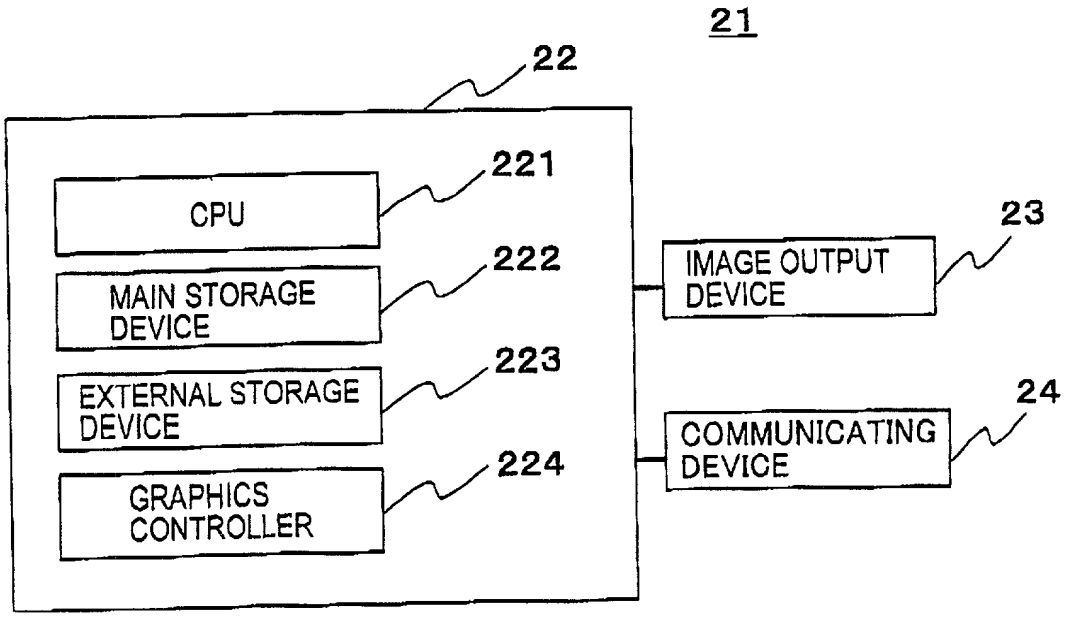

21
22
CPU
221
MAIN STORAGE DEVICE
222
EXTERNAL STORAGE DEVICE
223
GRAPHICS CONTROLLER
224
IMAGE OUTPUT DEVICE
23
COMMUNICATING DEVICE
24

FIG.4

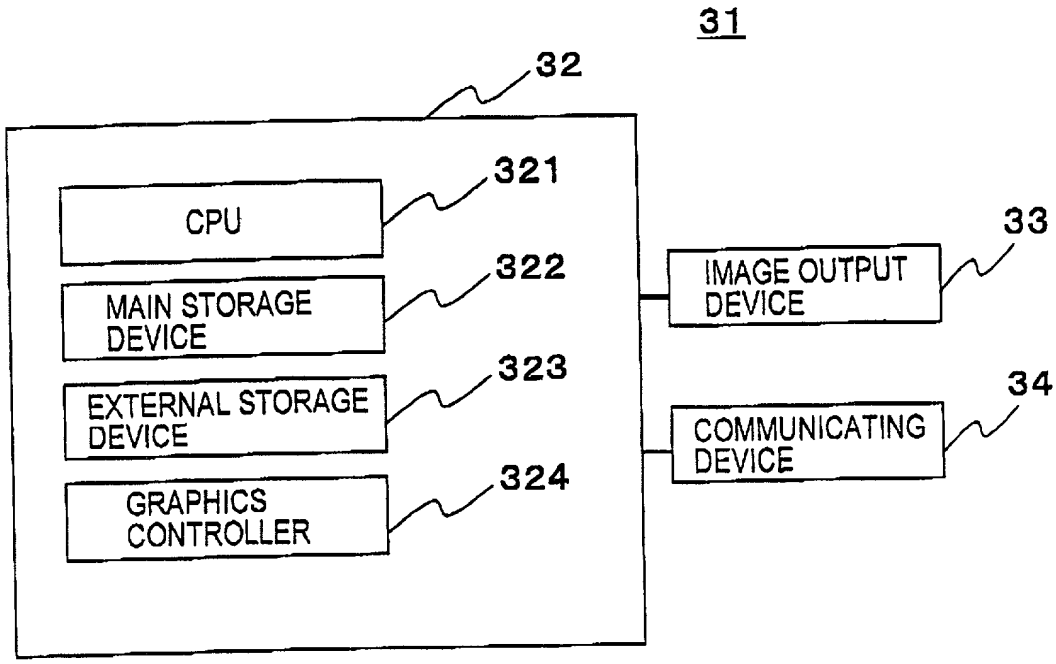

31
32
CPU
321
MAIN STORAGE DEVICE
322
EXTERNAL STORAGE DEVICE
323
GRAPHICS CONTROLLER
324
IMAGE OUTPUT DEVICE
33
COMMUNICATING DEVICE
34

FIG.5

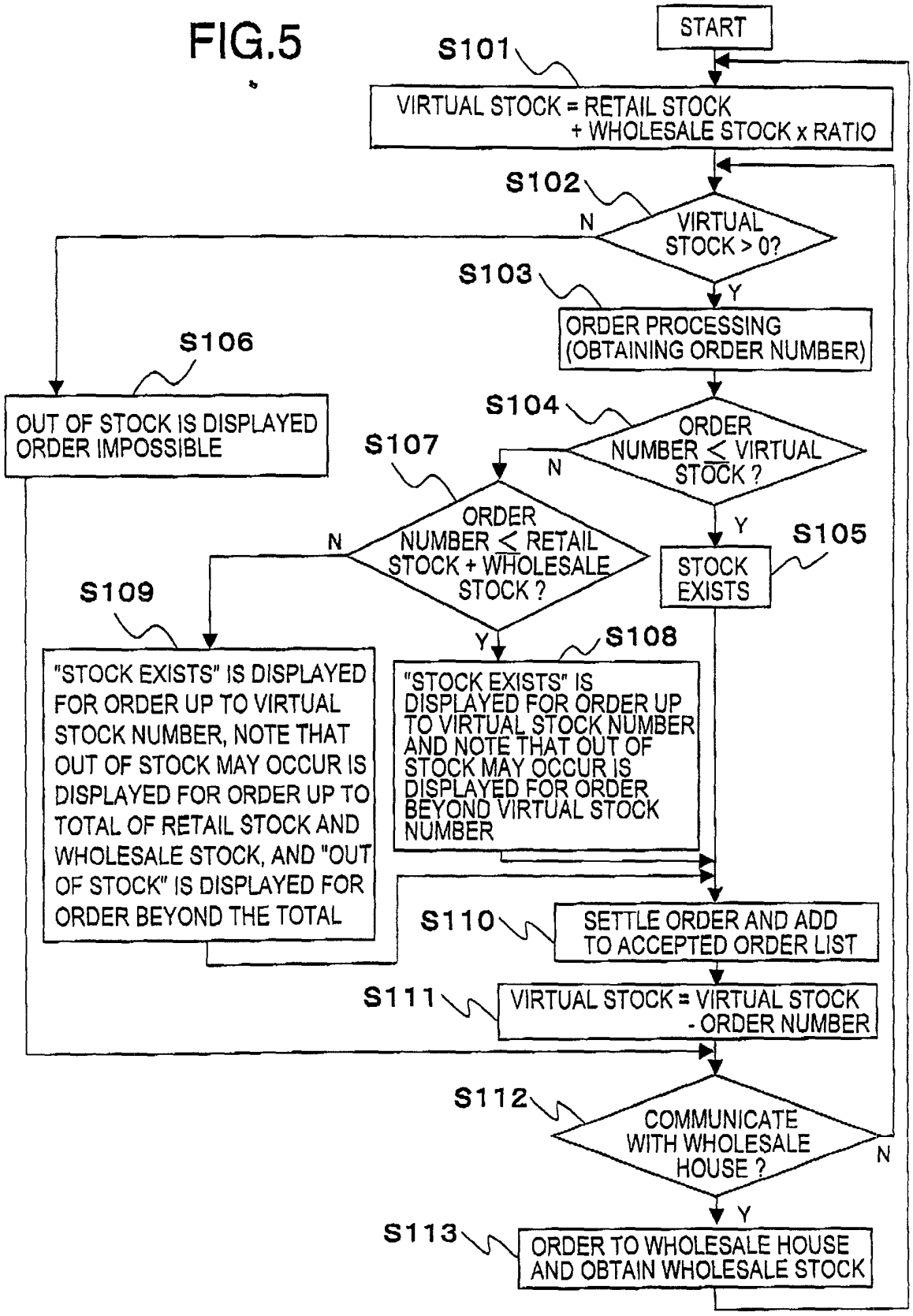

START
S101
VIRTUAL STOCK = RETAIL STOCK + WHOLESALE STOCK x RATIO
S102
VIRTUAL STOCK > 0?
N
Y
S103
ORDER PROCESSING (OBTAINING ORDER NUMBER)
S104
ORDER NUMBER ≤ VIRTUAL STOCK ?
N
Y
S105
STOCK EXISTS
S106
OUT OF STOCK IS DISPLAYED ORDER IMPOSSIBLE
S107
ORDER NUMBER ≤ RETAIL STOCK + WHOLESALE STOCK ?
N
Y
S108
"STOCK EXISTS" IS DISPLAYED FOR ORDER UP TO VIRTUAL STOCK NUMBER AND NOTE THAT OUT OF STOCK MAY OCCUR IS DISPLAYED FOR ORDER BEYOND VIRTUAL STOCK NUMBER
S109
"STOCK EXISTS" IS DISPLAYED FOR ORDER UP TO VIRTUAL STOCK NUMBER, NOTE THAT OUT OF STOCK MAY OCCUR IS DISPLAYED FOR ORDER UP TO TOTAL OF RETAIL STOCK AND WHOLESALE STOCK, AND "OUT OF STOCK" IS DISPLAYED FOR ORDER BEYOND THE TOTAL
S110
SETTLE ORDER AND ADD TO ACCEPTED ORDER LIST
S111
VIRTUAL STOCK = VIRTUAL STOCK - ORDER NUMBER
S112
COMMUNICATE WITH WHOLESALE HOUSE ?
N
Y
S113
ORDER TO WHOLESALE HOUSE AND OBTAIN WHOLESALE STOCK

FIG.6

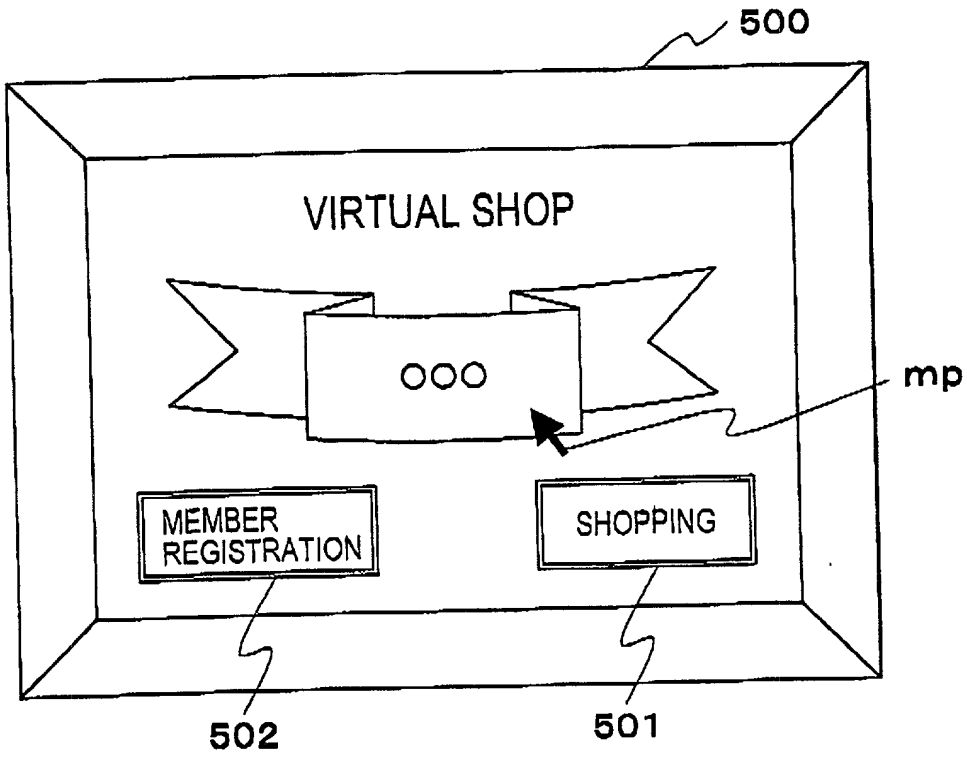

500
VIRTUAL SHOP
OOO
mp
MEMBER REGISTRATION
SHOPPING
502
501

FIG.7

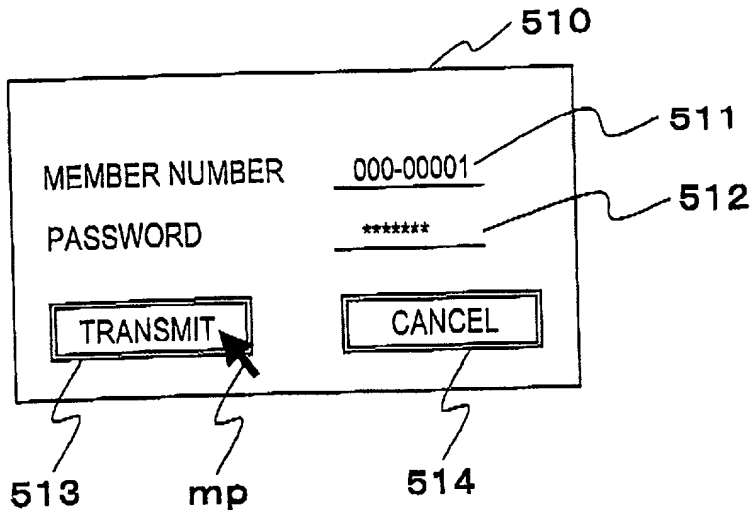

510
511
MEMBER NUMBER
000-00001
512
PASSWORD
****
TRANSMIT
CANCEL
513
mp
514

FIG.8

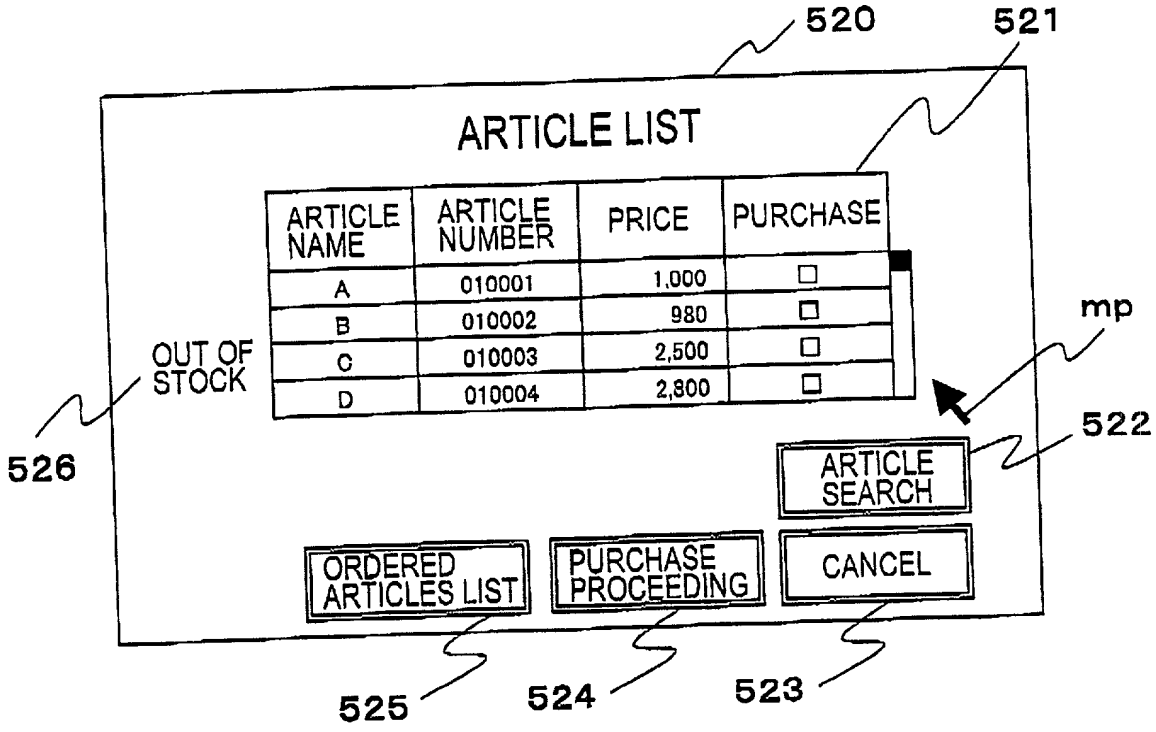

520
521
ARTICLE LIST
ARTICLE NAME
ARTICLE NUMBER
PRICE
PURCHASE
A
010001
1,000
B
010002
980
C
010003
2,500
D
010004
2,800
mp
OUT OF STOCK
526
522
ARTICLE SEARCH
ORDERED ARTICLES LIST
PURCHASE PROCEEDING
CANCEL
525
524
523

FIG.9

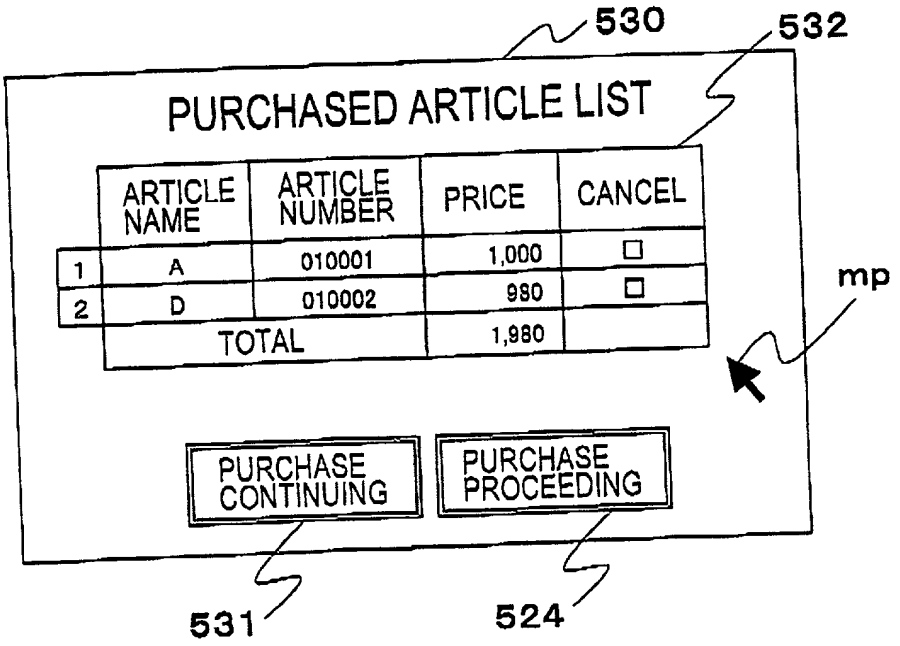

530
532
PURCHASED ARTICLE LIST
ARTICLE NAME
ARTICLE NUMBER
PRICE
CANCEL
1
A
010001
1,000
2
D
010002
980
TOTAL
1,980
mp
PURCHASE CONTINUING
PURCHASE PROCEEDING
531
524

FIG.10

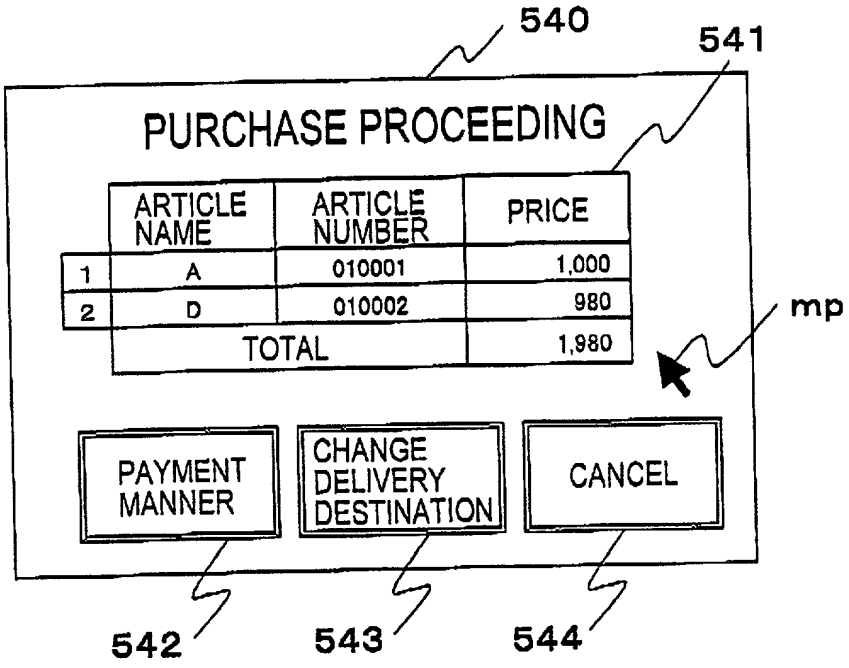

540
541
PURCHASE PROCEEDING
ARTICLE NAME
ARTICLE NUMBER
PRICE
1
A
010001
1,000
2
D
010002
980
TOTAL
1,980
mp
PAYMENT MANNER
CHANGE DELIVERY DESTINATION
CANCEL
542
543
544

FIG.11

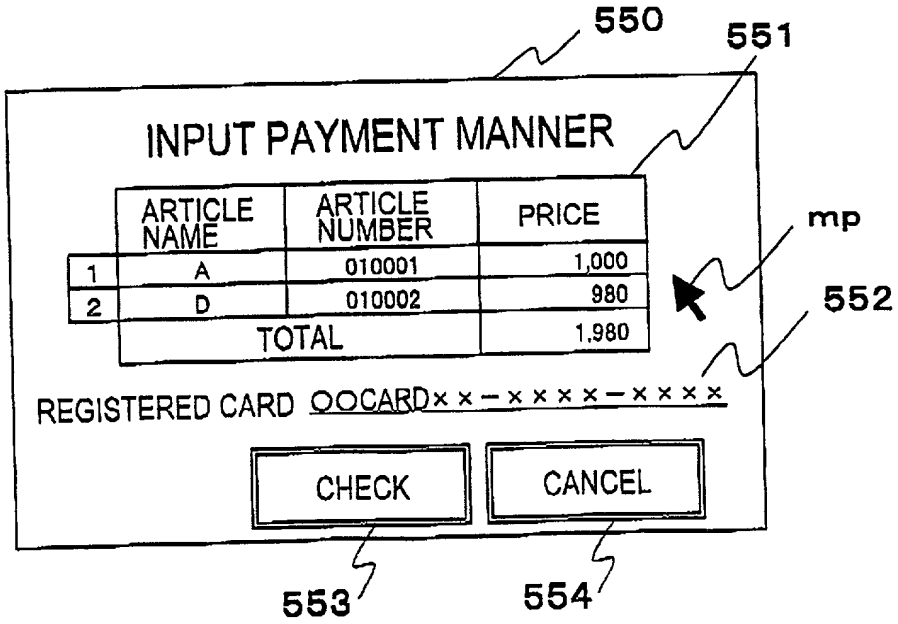

550
551
INPUT PAYMENT MANNER
ARTICLE NAME
ARTICLE NUMBER
PRICE
1
A
010001
1,000
2
D
010002
980
TOTAL
1,980
mp
552
REGISTERED CARD OOCARD××−××××−××××
CHECK
CANCEL
553
554

FIG.12

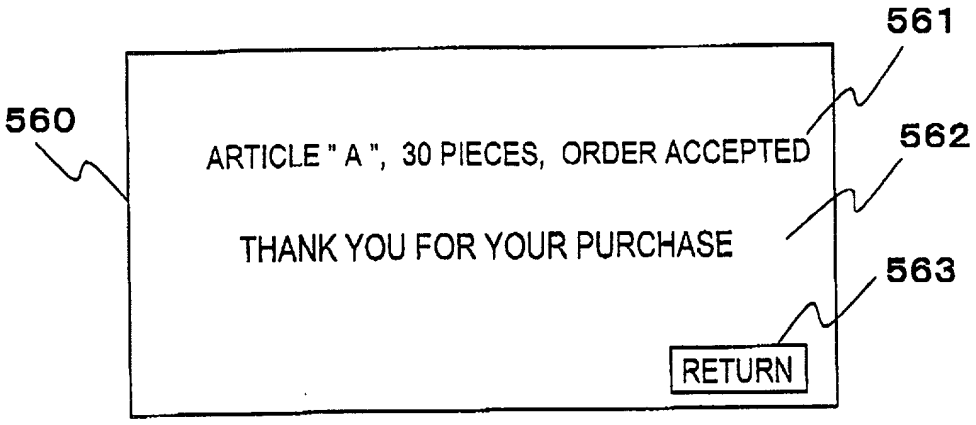

560
561
562
563
ARTICLE " A ", 30 PIECES, ORDER ACCEPTED
THANK YOU FOR YOUR PURCHASE
RETURN

FIG.13

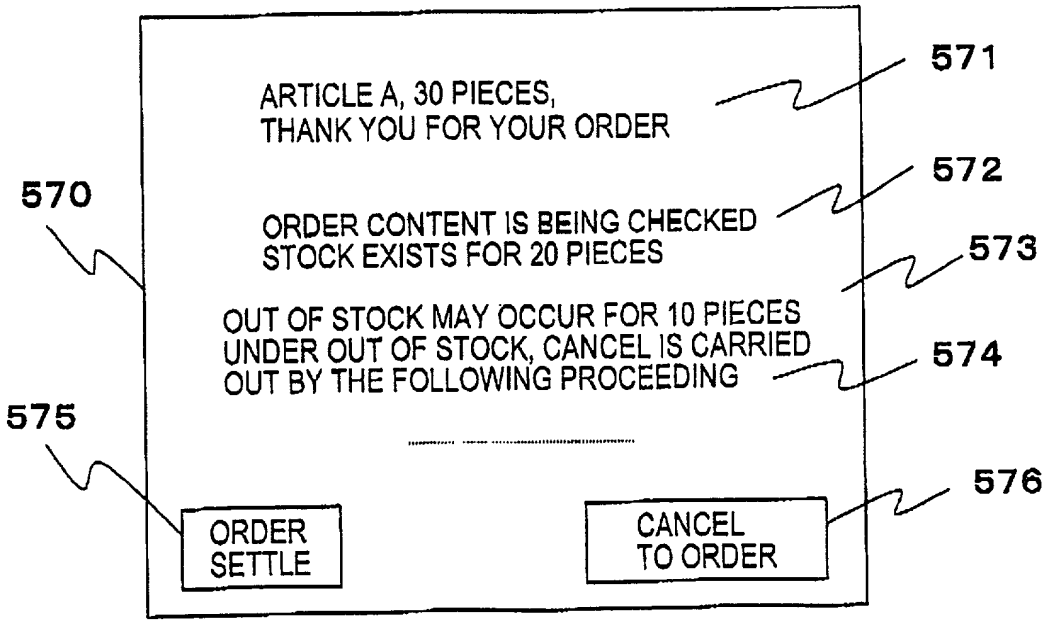

570
571
572
573
574
575
576
ARTICLE A, 30 PIECES,
THANK YOU FOR YOUR ORDER
ORDER CONTENT IS BEING CHECKED
STOCK EXISTS FOR 20 PIECES
OUT OF STOCK MAY OCCUR FOR 10 PIECES
UNDER OUT OF STOCK, CANCEL IS CARRIED
OUT BY THE FOLLOWING PROCEEDING
ORDER SETTLE
CANCEL TO ORDER

FIG.14

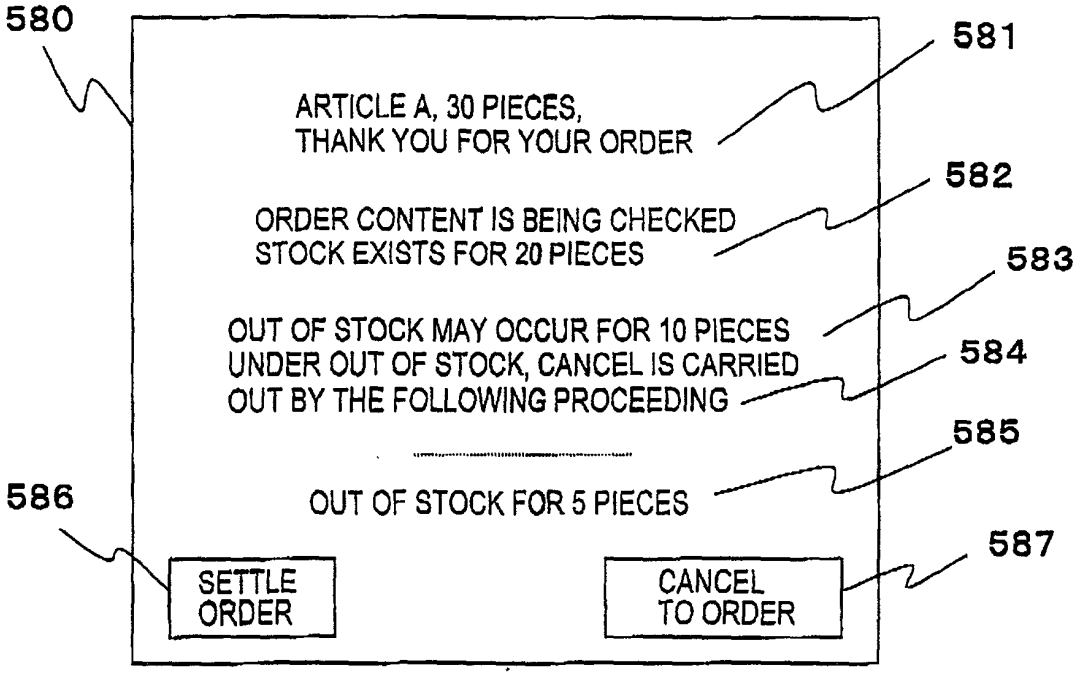


FIG.15

601 No	602 ORDER ACCEPTING DATE/TIME	603 CUSTOMER CODE	604 ORDER ACCEPTING ATTRIBUTE
1	2000/3/12 12:30	123456	STOCK EXISTS
2	2000/3/12 13:00	213456	STOCK EXISTS
3	2000/3/13 11:20	145644	STOCK EXISTS
4	2000/3/14 6:30	123221	STOCK EXISTS
5	2000/3/14 9:00	456545	NOT SETTLED
6	2000/3/14 11:30	456555	NOT SETTLED

600

FIG.16

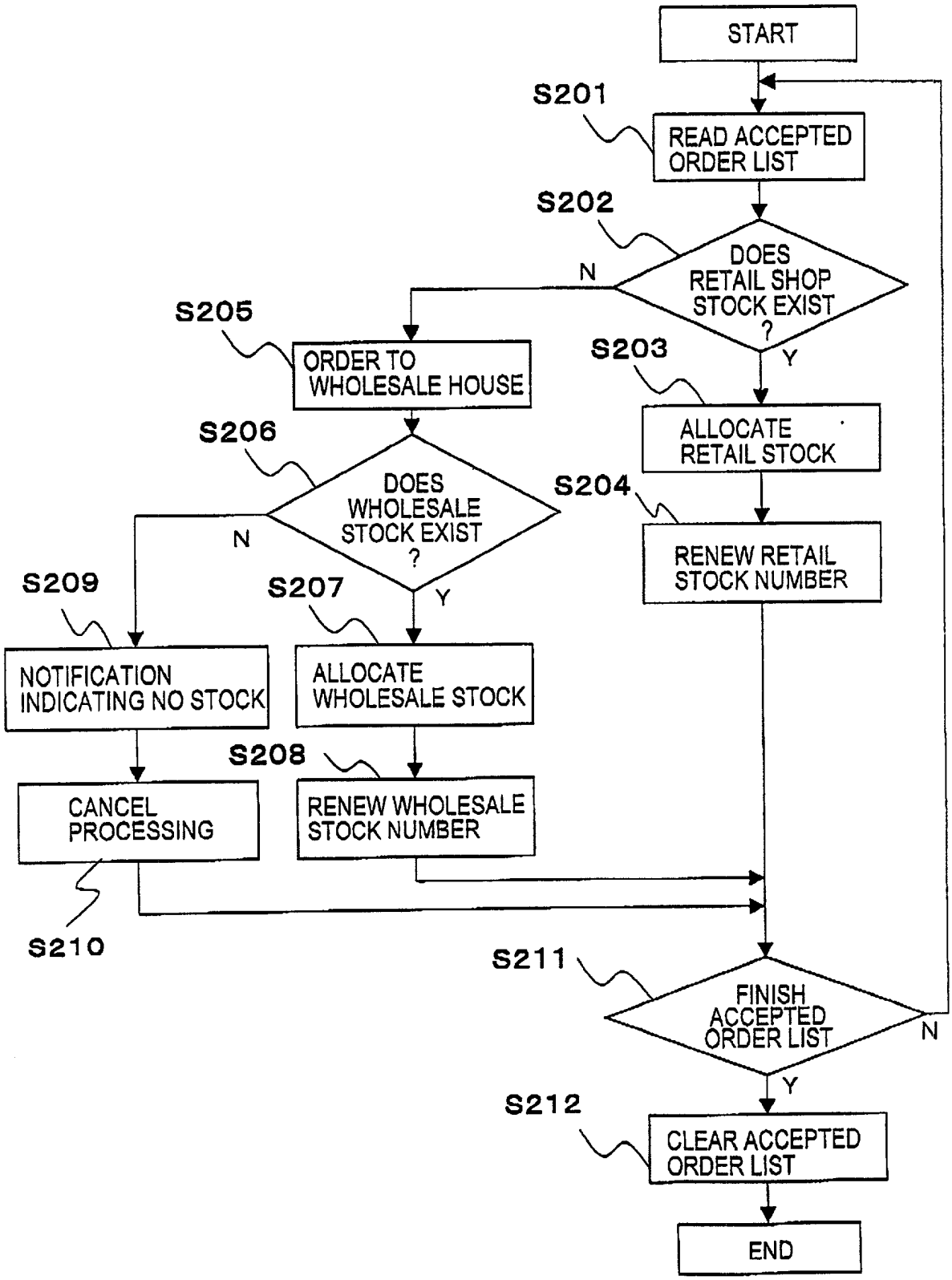

START
S201
READ ACCEPTED ORDER LIST
S202
DOES RETAIL SHOP STOCK EXIST ?
N
Y
S205
ORDER TO WHOLESALE HOUSE
S203
ALLOCATE RETAIL STOCK
S206
DOES WHOLESALE STOCK EXIST ?
N
Y
S204
RENEW RETAIL STOCK NUMBER
S209
NOTIFICATION INDICATING NO STOCK
S207
ALLOCATE WHOLESALE STOCK
S208
RENEW WHOLESALE STOCK NUMBER
CANCEL PROCESSING
S210
S211
FINISH ACCEPTED ORDER LIST
N
Y
S212
CLEAR ACCEPTED ORDER LIST
END

FIG.17

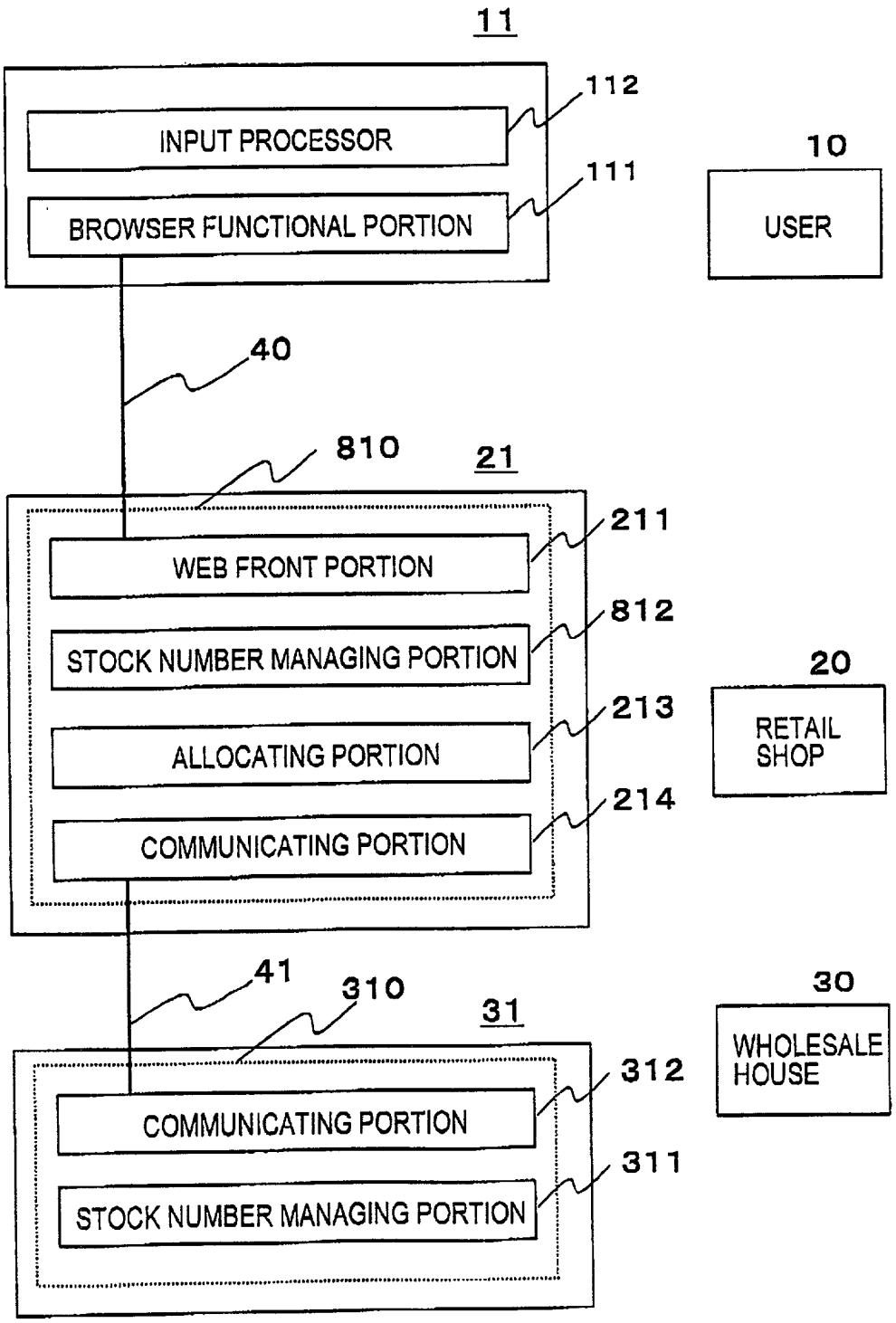

11
112
INPUT PROCESSOR
111
BROWSER FUNCTIONAL PORTION
10
USER
40
810
21
211
WEB FRONT PORTION
812
STOCK NUMBER MANAGING PORTION
213
ALLOCATING PORTION
214
COMMUNICATING PORTION
20
RETAIL SHOP
41
310
31
30
WHOLESALE HOUSE
312
COMMUNICATING PORTION
311
STOCK NUMBER MANAGING PORTION

FIG.18

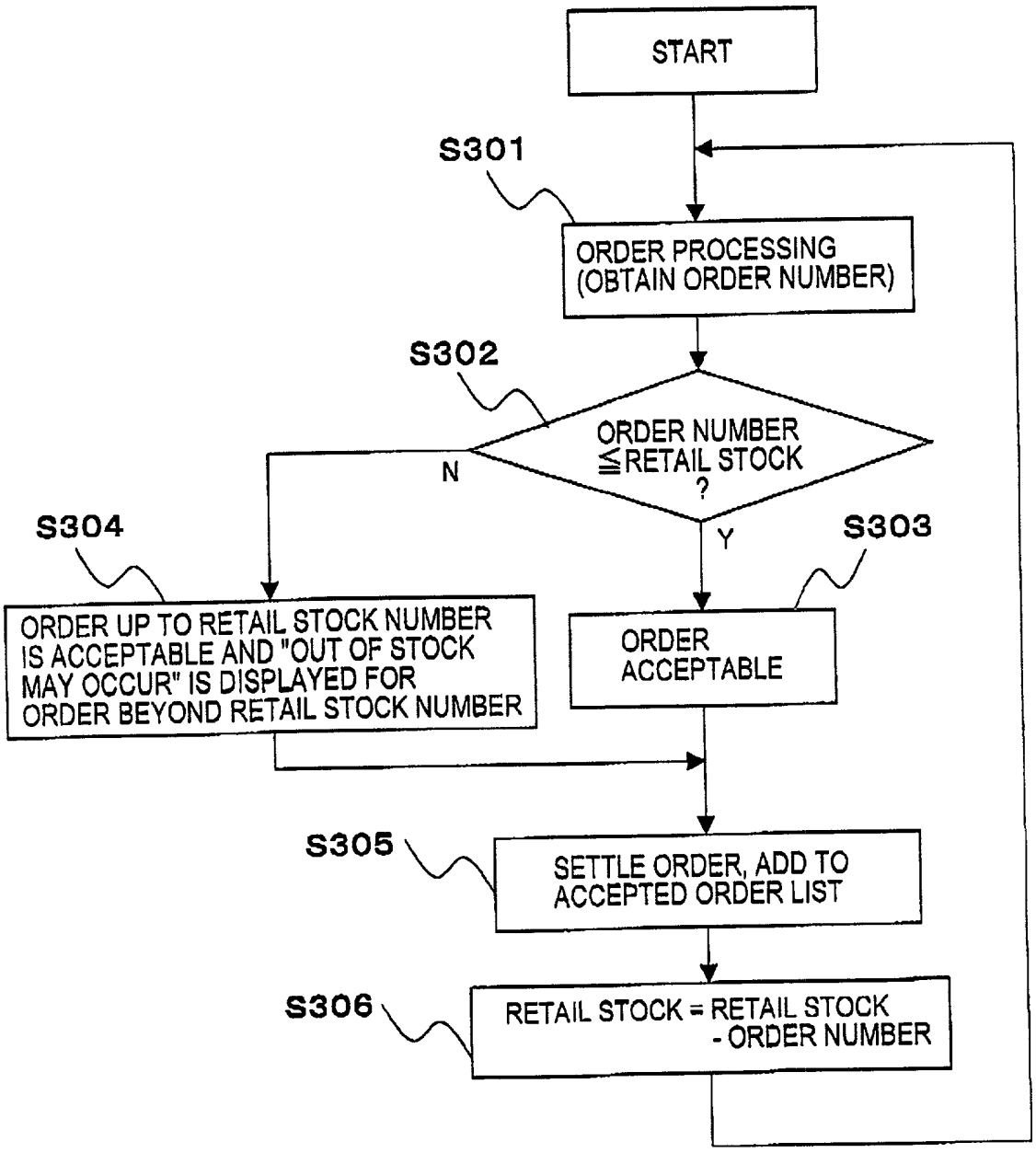
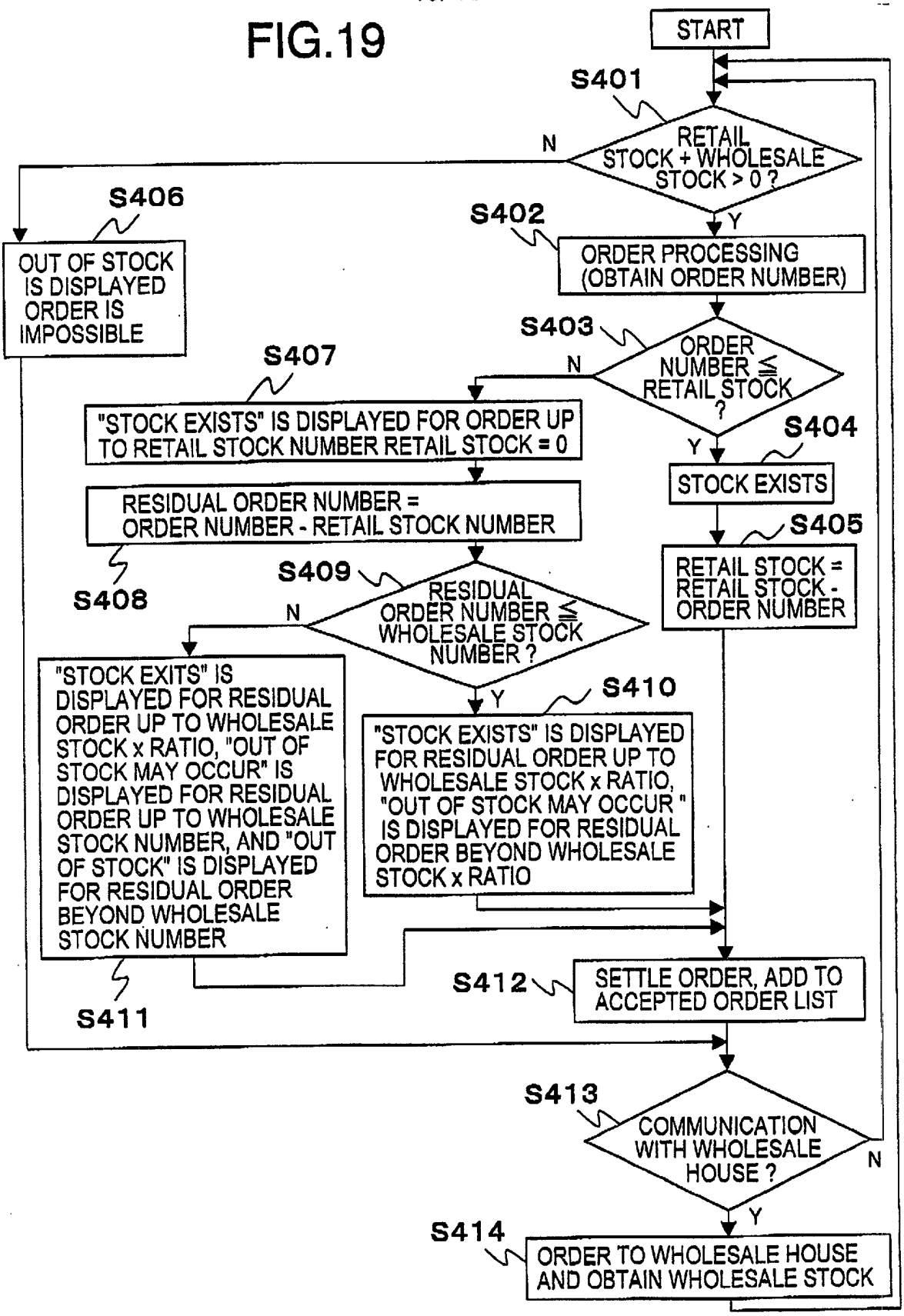

START
S301
ORDER PROCESSING (OBTAIN ORDER NUMBER)
S302
ORDER NUMBER ≦RETAIL STOCK ?
N
Y
S304
ORDER UP TO RETAIL STOCK NUMBER IS ACCEPTABLE AND "OUT OF STOCK MAY OCCUR" IS DISPLAYED FOR ORDER BEYOND RETAIL STOCK NUMBER
S303
ORDER ACCEPTABLE
S305
SETTLE ORDER, ADD TO ACCEPTED ORDER LIST
S306
RETAIL STOCK = RETAIL STOCK - ORDER NUMBER

FIG.19


START
S401
RETAIL STOCK + WHOLESALE STOCK > 0 ?
N
Y
S406
OUT OF STOCK IS DISPLAYED ORDER IS IMPOSSIBLE
S402
ORDER PROCESSING (OBTAIN ORDER NUMBER)
S403
ORDER NUMBER ≦ RETAIL STOCK ?
N
Y
S407
"STOCK EXISTS" IS DISPLAYED FOR ORDER UP TO RETAIL STOCK NUMBER RETAIL STOCK = 0
S404
STOCK EXISTS
RESIDUAL ORDER NUMBER = ORDER NUMBER - RETAIL STOCK NUMBER
S405
RETAIL STOCK = RETAIL STOCK - ORDER NUMBER
S408
S409
RESIDUAL ORDER NUMBER ≦ WHOLESALE STOCK NUMBER ?
N
Y
"STOCK EXITS" IS DISPLAYED FOR RESIDUAL ORDER UP TO WHOLESALE STOCK x RATIO, "OUT OF STOCK MAY OCCUR" IS DISPLAYED FOR RESIDUAL ORDER UP TO WHOLESALE STOCK NUMBER, AND "OUT OF STOCK" IS DISPLAYED FOR RESIDUAL ORDER BEYOND WHOLESALE STOCK NUMBER
S410
"STOCK EXISTS" IS DISPLAYED FOR RESIDUAL ORDER UP TO WHOLESALE STOCK x RATIO, "OUT OF STOCK MAY OCCUR " IS DISPLAYED FOR RESIDUAL ORDER BEYOND WHOLESALE STOCK x RATIO
S411
S412
SETTLE ORDER, ADD TO ACCEPTED ORDER LIST
S413
COMMUNICATION WITH WHOLESALE HOUSE ?
N
Y
S414
ORDER TO WHOLESALE HOUSE AND OBTAIN WHOLESALE STOCK